## Index of Claims

| Application No. | Applicant(s)   |  |
|-----------------|----------------|--|
| 09/918,922      | PAULMAN ET AL. |  |
| Examiner        | Art Unit       |  |
| Tho v Duong     | 3743           |  |

| _ |          |    |                                |     |   |              |   |          |
|---|----------|----|--------------------------------|-----|---|--------------|---|----------|
| 1 | Rejected | [- | (Through numeral)<br>Cancelled | ] [ | , | Non-Elected  | A | Appeal   |
| - | Allowed  | -  | Restricted                     |     |   | Interference | 0 | Objected |

|       |          | Ш        | _        | _        |          |          |          | Į        |               |          |          |          |          |         |         |         | l           | _         |         |          |               | J        | L  | L       |         |          |          | _        | _             |         |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|---------------|----------|----------|----------|----------|---------|---------|---------|-------------|-----------|---------|----------|---------------|----------|----|---------|---------|----------|----------|----------|---------------|---------|
| Cla   | im       | Г        | -        |          |          | ate      |          | _        | _             | $\neg$   | Г        | Cla      | im       |         | -       |         | Date        | , –       | _       |          |               | laim     | Т  | _       |         |          | Date     | _        |               |         |
|       |          |          | П        | П        | T        |          |          | П        | Т             |          |          |          |          | Т       | T       |         |             | Т         | Т       | T        |               | T =      |    | Т       | Т       | П        |          | П        | Т             | T       |
| Final | Original | 2018 J   |          |          |          |          |          |          | - 1           |          | 1        | Final    | Original |         |         | 1       |             | -         | 1       |          | Final         | Orioinal | ,  |         |         |          |          |          |               |         |
| Œ     | ĕ        | ~        |          | ı        |          |          |          |          |               |          | 1        | Œ        | ē        | -       | 1       | 1       |             | - 1       |         |          | Œ             | 8        |    |         |         |          |          | - 1      |               |         |
| _     |          | 2        | Н        | -        | -        |          | Н        | -        | $\rightarrow$ | -        | -        | -        | 51       | +       | +       | +-      | Н           | +         | +       | +        | -             | 10       |    | +       | ╫       | Н        | Н        | +        | +             | +       |
|       | 1 2      | ۲        | -        | $\dashv$ | $\dashv$ | Н        | Н        | +        | -             | $\dashv$ | $\vdash$ | -        | 52       | +       | +       | +       | Н           | +         | +       | Н        | $\vdash$      | 10       |    | +       | +       | Н        | Н        | -        | +             | +       |
| -     | 3        | -        | +        | -        | $\dashv$ | Н        | Н        | Н        | $\dashv$      | $\dashv$ | $\vdash$ | $\dashv$ | 53       | +       | +       | +       | Н           | $\dashv$  | +       | +        | -             | 10       |    | +       | +       | Н        | Н        | _        | $^{+}$        | +-      |
|       | 4        | b        | +        | -        | $\vdash$ | Н        | Н        | Н        | $\dashv$      | ⊣        | $\vdash$ |          | 54       | +       | +       | +       | Н           | +         | +-      | 1        |               | 10       |    | $^{+}$  | +       | П        |          |          | $\top$        |         |
| _     | 5        | v        | $\vdash$ | -        | Н        |          | Н        | Н        | $\neg$        | ┪        |          |          | 55       | Ť       | T       | Т       | П           | $\neg$    |         |          |               | 10       | 5  | T       |         |          |          |          |               |         |
|       | 6        | V        |          |          |          | П        | П        | П        |               |          |          |          | 56       | T       | T       |         | П           |           |         |          |               | 10       |    | Ţ       | L.      |          |          |          |               |         |
|       | 7        | 1        |          | $\neg$   |          |          | П        | П        | П             | ╗        |          |          | 57       |         | T       |         |             | $\Box$    |         |          |               | 10       |    | $\perp$ | $\perp$ |          |          |          | $\perp$       | $\perp$ |
|       | 8        |          |          |          |          |          |          |          |               |          |          |          | 58       | _       |         | L       |             |           |         | ш        | _             | 10       |    | 4       | 4       | Ш        | Ш        | _        | 4             | 4-      |
|       | 9        |          | Ш        | $\perp$  | Ш        |          | Ш        | Ш        |               | _        | $\perp$  | _        | 59       |         | $\perp$ | L       |             | _         |         | +        | -             | 10       |    | +       | +       |          | Н        | -        | +             | +       |
|       | 10       | ┞        | Н        | _        | Ш        | Ш        | Ш        | Ш        |               | _        | $\vdash$ | _        | 60       | +       | +       | ╀-      | $\vdash$    | _         | +       | +        | -             | 11       |    | +       | +       | $\vdash$ | Н        | -        | +             | +       |
|       | 11       | ⊢        | Н        | 4        | Н        | ш        | Н        | Н        | H             | 4        | -        | -        | 61       | +       | +       | +       | Н           | -         | +       | +        | $\vdash$      | 11       |    | +-      | +       | $\vdash$ | Н        | $\dashv$ | +             | +       |
|       | 12       | $\vdash$ | $\vdash$ | -        | Н        | -        | Н        | Н        | $\vdash$      | $\dashv$ | -        | -        | 62<br>63 | +       | +       | +       | Н           | +         | +       | +        | $\vdash$      | 11       |    | +-      | +       | 1        | Н        | $\dashv$ | +             | +-      |
|       | 14       | ⊢        | $\vdash$ | $\dashv$ | Н        | Н        | Н        | Н        | Н             | $\dashv$ | $\vdash$ | -        | 64       | +       | +       | +       | Н           | +         | +       | +        | $\vdash$      | 11       |    | +       | +       | Н        | Н        | -        | +             | +       |
| _     | 15       | +        | H        | -        | Н        | Н        | ۲        | Н        | $\vdash$      | $\dashv$ | -        |          | 65       | +       | +       | +       | Н           | $\forall$ | +       | Н        | $\vdash$      | 11       |    | +       | $^{+}$  | т        | Н        | $\dashv$ | 1             | _       |
|       | 16       | t        | H        | -        | Н        | Н        | 1        | Н        | Н             | $\dashv$ | $\vdash$ |          | 66       | $^{+}$  | $^{+}$  | $\top$  |             | $\forall$ | +       | T        |               | 11       |    | $\top$  | Т       | 1        |          | $\neg$   | $\neg$        |         |
|       | 17       | <u> </u> | Н        | ┪        | Н        | П        | _        | Н        | Н             | $\dashv$ | r        |          | 67       | 1       | 1       | T       |             | $\Box$    |         |          |               | 11       |    | I       | I       | L        |          |          |               |         |
|       | 18       | 1        | П        |          |          |          |          |          | П             | ╗        |          |          | 68       | $\top$  | Т       | Т       |             | П         |         |          |               | 11       |    | I       |         |          |          |          |               |         |
|       | 19       |          | П        |          |          |          |          | П        |               |          | Г        |          | 69       | $\neg$  | T       |         |             | $\Box$    |         |          |               | 11       |    | $\perp$ |         |          |          | Ш        | _             | 丄       |
|       | 20       |          | П        |          |          |          |          |          |               |          |          |          | 70       |         | T       |         |             | $\Box$    |         |          |               | 12       |    | _       | $\perp$ | _        |          | $\Box$   | _             |         |
|       | 21       |          |          |          |          |          |          |          |               |          |          |          | 71       | 4       | $\perp$ | _       |             |           | _       | ш        | _             | 12       |    | +       | 4       | ⊢        | Ш        | Ц        | 4             | -       |
|       | 22       | L        |          |          |          | Ш        | ┖        | Ш        |               |          | $\perp$  |          | 72       | _       | +       | 1       |             |           | +       | +        | <u> </u>      | 12       |    | +       | +       | ⊢        | Н        | _        | +             | +       |
|       | 23       | _        | Ш        | _        |          | Ш        | ┞-       | Ш        |               | _        | -        | _        | 73       | -       | +       | ╀       | -           | $\vdash$  | -       | +        | $\vdash$      | 12       |    | +       | +       | ⊢        | $\vdash$ | Н        | +             | +       |
|       | 24       | 1        |          |          | _        | Н        | ⊢        | 1        |               |          | -        |          | 74       | +       | +       | +-      | -           | Н         | +       | ₩        | -             | 12       |    | +       | ┿       | ╁        | Н        | Н        | $\rightarrow$ | +       |
|       | 25<br>26 | ╀        | Н        | _        | Н        | Н        | ⊢        | Н        |               | $\dashv$ | $\vdash$ | _        | 75<br>76 | +       | +       | +       | $\vdash$    | $\vdash$  | +       | +-1      | -             | 12       |    | +       | +       | ⊢        | -        | Н        | +             | _       |
|       | 27       | ⊢        | Н        |          | Н        |          | $\vdash$ | Н        | Н             | $\dashv$ | $\vdash$ | -        | 77       | +       | +       | +       | -           | $\vdash$  | +       | +-       | $\vdash$      | 12       |    | +       | +       | 1        | H        |          | $\dashv$      | _       |
| _     | 28       | ╁        | -        | _        | Н        | H        | ┢        | Н        | Н             | $\neg$   | H        | -        | 78       | +       | +       | +       | $\vdash$    | Н         |         | +        | -             | 12       |    | +       | +       | +        | H        | _        | $\dashv$      | $\neg$  |
|       | 29       | +        | Н        | -        | Н        | Н        | +-       | Н        | Н             | _        | H        |          | 79       | $^{+}$  | +       | +       | $\vdash$    | Н         | +       | $\Box$   |               | 12       |    | $\top$  | +       | т        |          |          |               | 7       |
| _     | 30       | $\vdash$ | $\vdash$ |          | $\vdash$ | -        | T        | П        | П             | _        | -        |          | 80       | 1       | $\top$  | Т       |             | П         | $\top$  | Т        |               | 13       |    | Т       | Т       | Т        |          | П        | П             |         |
|       | 31       | T        | П        |          | т        |          |          |          |               |          |          |          | 81       |         | I       | T       |             |           |         | $\perp$  |               | 13       |    | I       | I       | Г        |          |          |               | I       |
|       | 32       |          |          |          | П        |          |          |          |               |          |          |          | 82       |         | I       | L       |             |           |         | $\vdash$ |               | 13       |    |         | _       |          |          |          |               | _       |
| _     | 33       |          |          |          |          |          |          |          |               |          |          |          | 83       | I       | ┰       | L       | 1           | П         |         | $\perp$  |               | 13       |    | 4       | 4       | $\perp$  | _        | Ш        | Н             | -       |
|       | 34       | Г        |          |          | Ľ        | Ľ.       |          |          | Ы             | _        | Ĺ        | _        | 84       | _       | _       | 1       |             | Н         | +       | +        |               | 13       |    | +       | +       | +        | -        | Н        | $\vdash$      | +       |
|       | 35       | 1        | $\sqcup$ | _        | ╙        | _        | $\perp$  | $\perp$  | Ш             | Ц        | L        |          | 85       | $\perp$ | +       | $\perp$ | +-          | Н         | 4       | 4-       | <b> </b>      | 13       |    | +       | +       | +        | -        | Н        | $\vdash$      | +       |
|       | 36       | 1        | $\vdash$ | _        | ⊢        | ⊢        | -        | <b>—</b> | Н             | 4        | F        |          | 86       | +       | +       | +       | +-          | Н         | +       | +-       | <del> </del>  | 13       |    | +       | +       | +-       | +        | Н        | $\vdash$      | +       |
|       | 37       | ⊢        | $\vdash$ | _        | ⊢        | ├-       | ⊢        | ⊢        | Н             | Н        | -        |          | 87<br>88 | +       | +       | +       | +           | Н         | -       | +        | l ⊢           |          | 38 | +       | +-      | +        | +        | -        | Н             | +       |
| _     | 38       | +        | -        |          | -        | ⊢        | +        | $\vdash$ | Н             | $\dashv$ | -        | _        | 89       | +       | +       | +       | $\vdash$    | Н         | +       | +        | <del> -</del> | 13       |    | +       | +       | +        | +        | Н        | $\vdash$      | +       |
|       | 40       | +        | $\vdash$ | -        | $\vdash$ | +        | +        | $\vdash$ | $\vdash$      | $\dashv$ | H        | _        | 90       | +       | +       | +       | +           | Н         | +       | +        | l             | 14       |    | +       | +       | +        | $\vdash$ | т        | $\vdash$      | +       |
| _     | 41       | +-       | $\vdash$ | -        | $\vdash$ | $\vdash$ | +        | +        | Н             | $\dashv$ | H        | _        | 91       | +       | +       | +       | +           | $\vdash$  | +       | +        |               |          | 11 | +       | +       | +        | t        | т        | $\dashv$      | $\top$  |
| _     | 42       | +        | Н        |          | -        | +        | +        | 1        | Н             | Н        | H        |          | 92       | +       | +       | $^{+}$  | 1           |           | $^{+}$  | $\top$   |               |          | 12 | +       | +       | 1        | T        | т        | П             |         |
|       | 43       | $\top$   | H        | _        |          | †        | T        | T        | П             | $\vdash$ | r        | _        | 93       | 7       | +       | Т       | 1           | П         |         | $\top$   |               |          | 13 | 1       | Т       | Т        |          |          | П             |         |
|       | 44       | 1-       | П        | _        |          |          | T        | T        |               | П        | 1        | _        | 94       | $\neg$  | $\top$  | T       | 1           |           |         |          |               |          | 14 |         |         |          |          |          |               |         |
|       | 45       | т        | П        |          | 1        |          | 1        |          | П             |          | Г        |          | 95       |         |         |         | Ι           |           |         |          |               |          | 15 | Ι       |         |          |          |          |               | I       |
| _     | 46       |          | П        | _        |          |          |          | Г        |               |          |          |          | 96       |         | T       |         |             |           | $\perp$ |          |               |          | 16 | T       | I       | Г        | Г        |          | П             |         |
|       | 47       |          |          | _        |          |          |          |          |               |          |          |          | 97       | I       | I       | Г       | $\subseteq$ |           |         |          |               |          | 47 | 4       | 1       | Ļ        | 1        | 1        | Ш             | _       |
|       | 48       | L        | П        | Ξ        | L        | L        | L        | -        | L             |          |          |          | 98       | _       | 4       | 4       | 1           | 1         | _       | 4_       | -             |          | 18 | +       | +       | +        | +        | ┞-       | Н             | -       |
| _     | 49       | $\Gamma$ |          | _        | F        |          | Г        | Ľ        | ┕             | Ш        | Ĺ        |          | 99       | 4       | 4       | 1       | 4           | $\perp$   | _       | +        | $\vdash$      |          | 19 | +       | +       | +        | +        | 1        | Н             | -       |
|       | 50       | 1        |          |          | 1        | 1        |          | 1_       | 1             | L        | L        |          | 100      | ᆚ       |         |         | _           |           |         |          | J L           | ப        | 50 |         |         | _        | _        | $\perp$  | ш             |         |